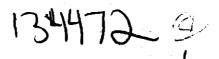
Environmental Resources Management, inc.



855 Springdale Drive • Exton, Pennsylvania 19341 • (215) 524-3500 • Telex 4900009249

1 August 1988

Mr. Jack Kelly U.S. EPA CERCLA Remedial Enforcement Section Region III 841 Chestnut Street Philadelphia, PA 19107 File No. 11014

RE: First Quarter Residential Ground Water Sampling Results William Dick Lagoons Site

Dear Mr. Kelly:

In accordance with the approved Work Plan for Residential Sampling, Water Supply Improvements and Restriction of Access at the William Dick Lagoons Site dated 22 December 1987, 18 residential water supplies were sampled during the first quarter 1988. This sampling was conducted between 28 March and 1 April, 1988.

Six first time water quality results are also included for residents who requested sampling during the first quarter period.

WATER OUALITY RESULTS

The water quality results of the first quarter 1988 are presented on Table 1. The compounds reported on Table 1 are known to be present as a result of a detailed QA/QC review (report is attached). A current historical compilation of residential sampling results is presented in Table 2.

Six residential raw water supplies detected TCE in excess of 5 ppb and 11 supplies detected between the detection limit of 0.2 ppb and 5 ppb. Two of the supplies reporting TCE at greater than 5 ppb have granular activated carbon treatment systems and both samples of the post treatment water reported less than 5 ppb.

MODIFICATIONS TO EXISTING PROGRAM

As provided in the Work Plan, and the Consent Agreement and Order (27 January 1988), this sampling and analysis has been performed to detect the migration of site related compounds as well as to assess the need for water supply treatment and frequency of monitoring at each of the residences. Where quarterly monitoring results indicate a change in ground water quality, the assignment of residences to one of the three tier groups is changed.



Mr. Jack Kelly U.S. EPA 1 August 1988 Page 2

Reassignments to Tier III

As a result of the first round of quarterly sampling, four residences were reassigned to Tier III status. This was based on the detection of trichloroethene (TCE) in excess of the Maximum Contaminant Level (MCL) of 5 ppb. These include:

- 06 Ostrosky Granulated Activated Carbon-GAC installed
- 08 Alexander GAC installed
- 32 J. Gregor Refused system and subsequent sampling
- 48 Baldwin Campground spring installation in progress.

As indicated above, GAC treatment systems have been installed at two of the residences, however, installation of a system at the J. Gregor residence has not been arranged due to homeowner resistance.

The Baldwin Spring has recently been discovered to serve a tenant house with drinking water, as well as the majority of the campground. Arrangements are currently being made for the installation of the appropriate treatment components.

Each of these four residences is being included in the Tier III monitoring group and will be sampled quarterly, with sample analysis by EPA Method 601, and annually for the Target Compound List. We will continue to attempt to sample the J. Gregor residence.

Assignment to Tier II

The A. Walton residence was sampled for the first time on 28 March 1988. The results of this initial sampling of this residence for TCE were below the MCL, but above the limit of detection. This residence is served by one of the two wells supplying the High Point Trailer Park. The A. Walton residence is being incorporated as a Tier II residence in accordance with the Work Plan.

OTHER ACTIONS

Following a site visit with Mr. Alfred Baldwin on 23 June 1988, Chemical Leaman is attempting to obtain water supply distribution information for the Highpoint Trailer Park, the Hidden Acres Campground (Baldwin), and the Spring Hills Trailer Park. This information will enable us to determine the difference in water quality between the two wells serving the Highpoint Trailer Park.



Mr. Jack Kelly U.S. EPA 1 August 1988 Page 3

The second sampling event of the quarterly monitoring program was performed on the week of 20 June; subsequent sampling events are tentatively scheduled for the weeks of 12 September and 12 December 1988.

If you have any questions regarding this submittal, or the quarterly monitoring program, please call.

Sincerely

David P. Steele Project Coordinator

Ronald A. Landon, P.G. Principal-in-Charge

DPS/trb

cc: Richard C. Littlepage, CLTL Susan Gilliland, ERM



TABLE 1. FIRST QUARTER RESIDENTIAL WATER QUALITY RESULTS WILLIAM DICK LAGOONS SITE

DATE ISSUED: 6 HOUSE # FESIDENCE LOCATON D			6/6/88 Date	SAMPLER	SAMPLET SAMPLE LIST	Concentration trichlore	Concentrations in u.g.f. (ppb trichlore methylene c	b) chloroform	1 1	-dichlore	1,2-dichloro 1,1,1 trichloro 1,1-dichloro	o 1,1-dichloro	tr-1,2-di	1,2-dichloro	1,4-dichloro
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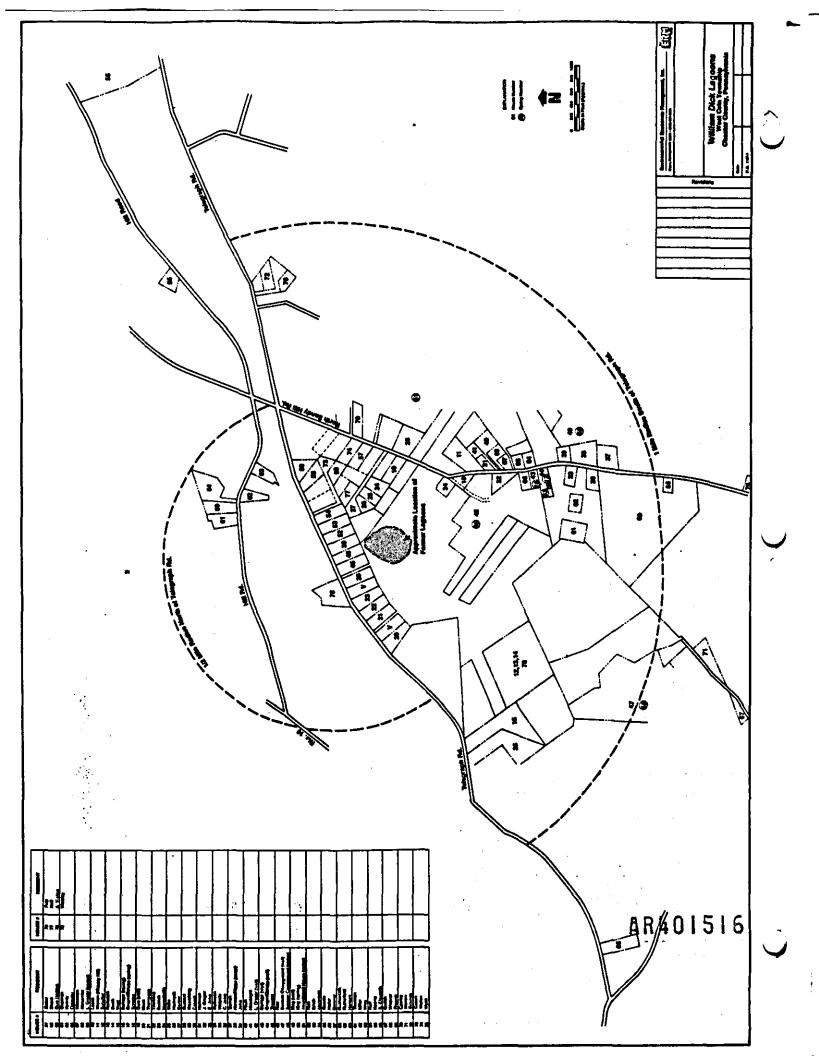
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Analytical Quality Assurance Review William Dick Lagoon Site Residential Sampling Program First Quarter 1988

14 June 1988

Prepared for:
Chemical Leaman Tank Lines, Inc.
102 Pickering Way
Lionville, Pennsylvania 19341-0200

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Prepared by:
Environmental Resources Management, Inc.
855 Springdale Drive
Exton, Pennsylvania 19341

File: 110-14-00-01



Chemical Leaman Tank Lines, Inc William Dick Lagoons Site Residential Sampling Program First Quarter 1988 Analytical Quality Assurance Review

This analytical quality assurance review is based on the review of data for twenty-six residential ground water samples, two blind blanks, laboratory method blanks and associated quality control samples collected on 28, 29 March and 1 April 1988 in association with the William Dick Lagoons Site Residential Sampling Program. The samples that have been reviewed are listed on Attachment 1. The review was performed according to the Functional Guidelines for Evaluating Organic Analyses (USEPA). Data summary tables for each sample are attached to this review.

1.0 Organic Data

1.1 Introduction

The purgeable halocarbon, volatile organic analyses of the twenty six residential ground water samples were performed by CompuChem Laboratories of Research Triangle Park, North Carolina using EPA Method 601. The findings in this report are based on a review of the following data deliverables: holding times, method and blind travel blank results, surrogate compound recoveries, matrix spike/matrix spike duplicate (MS/MSD) recoveries, duplicate analysis results, calibration data, target compound matching quality and quantitation of results.

The analyses were performed acceptably, but necessitate a few qualifying statements. It is recommended that the reported results be used with the following qualifier statements.

1.2 Oualifiers

The presence of methylene chloride in all samples is qualitatively questionable because of the presence of this compound in travel and/or laboratory method blanks at similar concentrations. EPA protocol allows positive sample results that are less than or equal to ten (10) times travel or method blank contamination levels of common laboratory contaminants such as methylene chloride to be considered qualitatively questionable. This has been indicated with a "B" next to the reported results.

The presence of chloroform, 1,2-dichloroethane, 1,2-l 8 dichloropropane, and trans-1,2-dichloroethene in the samples



listed below is qualitatively questionable because of the presence of these compounds in travel and/or laboratory method blanks. EPA protocol allows positive sample results that are less than or equal to five (5) times travel or method blank contamination levels to be considered qualitatively questionable. This has been indicated with a "B" next to the reported results.

Samples with

Compound

Chloroform

1,2-dichloroethane

1,2-dichloropropane

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1,2-dichloroethene

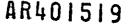
248 Baldwin Springs and 32 Gregor raw

The Gregor Raw sample was analyzed as quality control, matrix spike duplicate samples. Therefore, duplicate analyses were obtained for compounds which were not spiked. The unspiked, MS and MSD analyses for trichloroethene yielded results of 18 ug/l, 14 ug/l and 14 ug/l, respectively, yielding a relative standard deviation (RSD) of 15%. This low RSD indicates good laboratory precision for trichloroethene in this sample. However, 1, 1-dichloroethene was detected at erratic concentrations of 1.8 ug/l (unspiked),0.80 ug/l (MSD) and <0.30 ug/l (MSD). The 1, 1-dichloroethene result reported for the Gregor Raw sample has been labeled as suspect because of the erratic triplicate results. This has been indicated with an "S" next to the result on the summary report.

The analysis of the Sarnak Raw sample detected trichloroethene at 0.68 ug/l. This result has been labelled suspect by ERM because a blind duplicate of this location submitted for quality control purposes did not detect trichloroethene above the detection limit of 0.20 ug/l. This has been indicated with an "S" next to the report result on the summary report.

2.0 Summary

The organic analyses for these samples were performed accceptably but necessitated a few qualifying statements. This analytical quality assurance review has identified the aspects of the analytical data which have required qualifying statments. A support documentation package has been prepared for this quality assurance review and is filed with the CLTL-William Dick Lagoon Site project file.





Report Prepared By:

Lester J. Dupes Quality Assurance Chemist

10 June 1988 Date

Approved By:

David R. Blye Quality Assurance Manager



ATTACHMENT #1

ERM TR#	Resident	CompuChem #	: :
7288	8 Alexander	188883	
7219	44 Gregor/Combs	188304	•
7220	52 Hart-Post	188305	
7235	52 Hart-Mid	188306	
7236	52 Hart-Raw	188308	٠.
7238	11 Warren	188309	
7239	7 Whiteman	188310	
7213	37 Sarnak-Post	187961	
7214		187962	
7215	37 Sarnak-Raw	187963	
7216	111 Kanras-Raw	187964-Blind dup. o	£ 7215
7217	32 Gregor Raw (MS/MSD)	187965	, , , , , , , , , , , , , , , , , , ,
7218	109 Watkins-Blind Bla		
7221	42 Gregor-Post		Ž
7222	42 Gregor-Mid	187968	
7223	42 Gregor-Raw	187971	:
7224	6 Ostrosky	187972	
7225	5 Koontz	187973	-
7226	78 A. Walton	187974	
7227	19 Guie	187975	
7228	41 Himelright	187976	
7229	34 Rollinson	187977	
7230	53 Smith	187978	
		3187980	* * *
7231	29 Wearshing-Post	·	
7232	29 Wearshing-Mid	187982	
7233	29 Wearshing-Raw		:
7234	Equipment Rinse #1	187987	
7240	30 Calvert	188311	
7241	116 Klose-Blind Blank	·	k
7242	Equipment Rinse #2	188315	:



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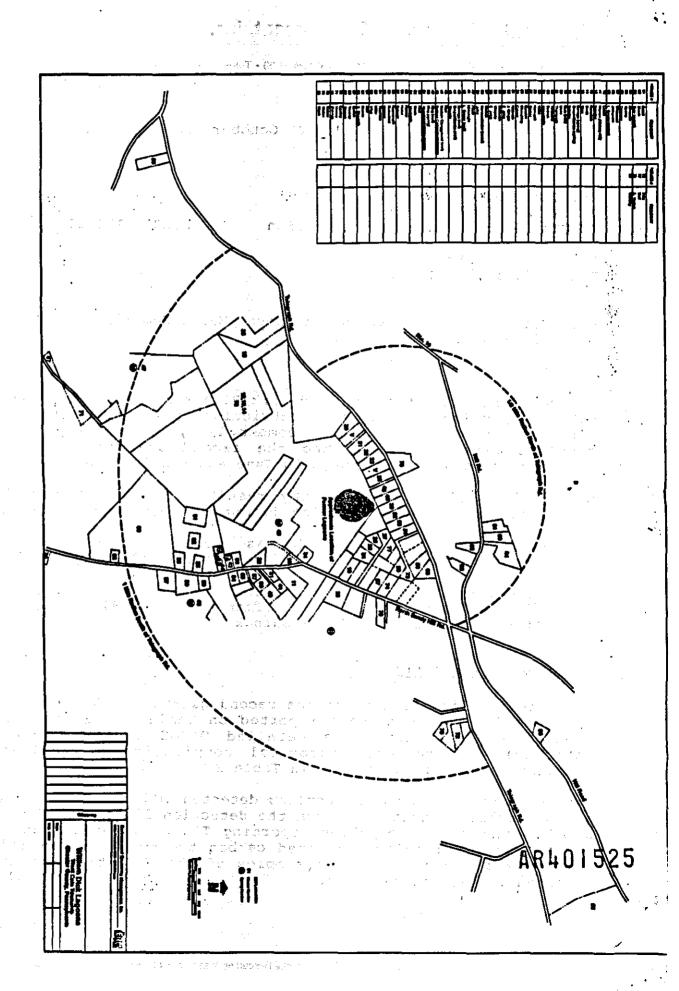
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